Ministry of Northern Development and Mines

Ontario

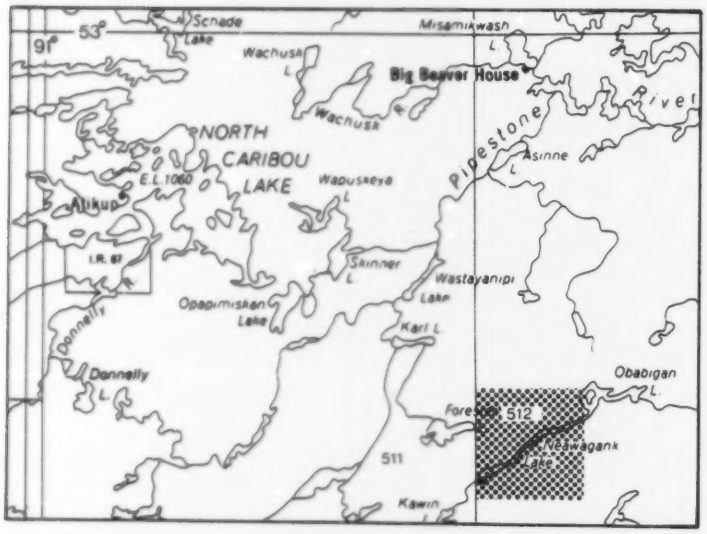
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 512

NEAWAGANK LAKE AREA

Compiled by the Staff of
the Resident Geologist's Office
Sioux Lookout



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO
Mineral Development Exploitation Minerals

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-05623/

NTS Number 53A/05NW

Mining Claim Map Number G-2140

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Neawagank Lake Area, Geological Data Inventory Folio 512; compiled by the staff of the Resident Geologist's office, Sioux Lookout.

Original Compilation by: C.J. Proctor and M.O. Roy

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	YES	CJP
3	ODM General Index: 9 Volumes	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Thesis - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	YES	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (O G S)	YES	CJP
14	Author - Subject Articles File	NO	CJP
15	Miscellaneous Papers ODM & OGS	YES	CJP
16	ODM Geological Circulars OGS Study Series	NO	CJP
17	ODM Preliminary Reports ODM Bulletins	NO	CJP
18	ODM - OGS Open File Reports	YES	CJP
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	CJP
20	OGS Aggregate Resources Inventory Papers	NO	CJP
21	OGS Mineral Potential Maps	YES	CJP
22	Drill Core Library Catalogue	NO	CJP
23	Unpublished Theses	NO	CJP
24	Aerial Photographs filed in the Sioux Lookout Office	NO	CJP

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept., (A.R.)	Annual Report
A.R.I.P.	Aggregate Resources Inventory Paper
Bull.	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull	Geological Society of America Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
M.P.	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
O.G.S.	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
Sum. Rept.	Summary Report

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2 471 054	acres	1 acre	0 404 685 6	ha
			VOLUME		
1 cm^3	0 061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35 314 7	cubic feet	1 cubic foot	0 028 316 85	m^3
1 m^3	1 308 0	cubic yards	1 cubic yard	0 764 555	m^3
			CAPACITY		
1 L	1 759 755	pints	1 pint	0 568 261	L
1 L	0 879 877	quarts	1 quart	1 136 522	L
1 L	0 219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0 035 273 96	ounces (avdp)	1 ounce (avdp)	28 349 523	g
1 g	0 032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2 204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0 001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1 102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0 000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0 984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g t	0 029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34 285 714 2	g t
1 g t	0 583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1 714 285 7	g t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) ton (short)	20.0	pennyweights ton (short)
1 pennyweight ton (short)	0 05	ounce (troy) ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

For further information please contact:

Resident Geologist's Office
P. O. Box 3000
Sioux Lookout, Ontario
POV 2TO

Phone: (807) 737-2037 or 2039

METALS AND MINERALS REFERENCES LIST

△ anh ..... Anhydrite
△ ank ..... Ankerite
△ anna ..... Annabergite
△ ap ..... Apatite
△ arg ..... Argentite
△ As ..... Arsenic
△ asp ..... Arsenopyrite
△ asb ..... Asbestos
△ ba ..... Barite
△ be ..... Beryl
△ Bi ..... Bismuth
△ bn ..... Bornite
△ bran ..... Brannerite
△ bruc ..... Brucite
△ Cd ..... Cadmium
△ calc ..... Calcite
△ carb ..... Carbonate
△ cel ..... Celestite
△ cc ..... Chalcocite
△ cp ..... Chalcopyrite
△ ch ..... Chert
△ clay ..... Clay
△ Co ..... Cobalt
△ cob ..... Cobaltite
△ cb ..... Columbite
△ Cu ..... Copper
△ cor ..... Corundum
△ dol ..... Dolomite
△ ep ..... Epidote
△ ery ..... Erythrite
△ fel ..... Feldspar
△ fl ..... Fluorite (flurospar)
△ fu ..... Fuchsite
△ gn ..... Galena
△ gt ..... Garnet
△ goe ..... Goethite
▲ Au ..... Gold
△ gf ..... Graphite
△ gl ..... Gravel
△ gyp ..... Gypsum
△ hem ..... Hematite
△ il ..... Ilmenite
△ Fe ..... Iron
△ IF ..... Iron Formation
△ jas ..... Jasper
△ kaol ..... Kaolinite (kaolin)
△ ky ..... Kyanite
△ Pb ..... Lead
△ lim ..... Limonite
△ Li ..... Lithium
△ mgst ..... Magnesite
△ mag ..... Magnetite
△ mc ..... Malachite
△ Mn ..... Manganese
△ mb ..... Marble
△ mar ..... Marcasite
△ ma ..... Marl
△ mi ..... Mica
△ ml ..... Millerite
△ mo ..... Molybdenite
△ Mo ..... Molybdenum
△ mon ..... Monazite
△ ne .... Nephelite (nepheline)
△ nc ..... Niccolite
△ Ni ..... Nickel
△ Nb ..... Niobium
△ Pd ..... Palladium
△ peat ..... Peat
△ pent ..... Pentlandite
△ Pt ..... Platinum
△ py ..... Pyrite
△ pyl ..... Pyrochlore
△ pyrl ..... Pyrolusite
△ po ..... Pyrrhotite
△ q ..... Quartz
△ qcv .. Quartz carbonate vein
△ ra ..... Radioactive minerals
△ RE ..... Rare Earths
△ sd ..... Sand
△ sgl ..... Sand and gravel
△ ss ..... Sandstone
△ scap ..... Scapolite
△ shee ..... Scheelite
△ serp ..... Serpentine
△ sh ..... Shale
△ sid ..... Siderite
△ si ..... Silica
▲ Ag ..... Silver
△ sl ..... Slate
△ sm ..... Smaltite
△ sod ..... Sodalite
△ spec ..... Specularite
△ sp ..... Sphalerite
△ spd ..... Spodumene
△ staur ..... Staurolite
△ stib ..... Stibnite
△ st ..... Stone
△ s ..... Sulphides
△ talc ..... Talc
△ Te ..... Tellurium
△ td ..... Tetrahedrite
△ th ..... Thorite
△ Th ..... Thorium
△ thuc ..... Thucholite
△ ti ..... Titanite
△ Ti ..... Titanium
△ tour ..... Tourmaline
△ trap ..... Trap rock
△ W ..... Tungsten
△ uran ..... Uraninite
△ U ..... Uranium
△ verm ..... Vermiculite
△ Y ..... Yttrium
△ Zn ..... Zinc
△ zr ..... Zircon

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	JARDINE	Au,Ag	02191		-Ag (minor occurrence) -Geological Report 207, p.34 -AFRO 1982, #2.4908 -Map P.807 -Assay showed 18.5 g/t (0.54 oz/ton) Au -ODM grab sample assayed 0.3 g/t (0.01 oz/ton) Au, tr Ag
B	HOOKER-WILSON	Au	02170		-Geological Report 207, p.34 -AFRO 1981-82, #2.4115, 2.4908 -Map P.807 -grab samples from a trench returned values from 0.02 to 3.46 oz/ton Au -O.F.R. 5180, p.62-65
C	UNNAMED	Au,Ag			-53A/05NW-0016A1 -53A/05NW-0017A1
D	UNNAMED	Au			-53A/05NW-0017A1
E	UNNAMED	Au			-53A/05NW-0033 -Map P.807
F	UNNAMED	Au			-53A/05NW-0033

NEAWAGANK LAKE AREA

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
1	CANADIAN NICKEL C. L. (53A/05NW-0010)				82															
2	ONTARIO L. (493217) (53A/05NW-0011)											82	82							
3	CANADIAN NICKEL C. L. (53A/05NW-0012)											81								
4	CANADIAN NICKEL C. L. (53A/05NW-0013)	82						82												
5	RIO TINTO CANADIAN * EXPLORATION L. (53B/08NE-0012)	62																		
6	HOOKER SYNDICATE (53A/05NW-0014)	41				41														
7	RIO TINTO CANADIAN EXPLORATION LTD. (53A/05NW-0015-C1)				63	63														
8	INCO LTD. (53A/05NW-0015-A1)				61/62															

* REFERS TO AN UNDEFINED AREA

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS. NOTES. CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
9	RIO TINTO CANADIAN EXPLORATION L. (53A/05NW-0016-A1)	62				62														
10	RIO TINTO CANADIAN EXPLORATION L. (53A/05NW-0017-A1)	61				61														
11	RIO TINTO CANADIAN EXPLORATION L. (53A/05NW-0017-B1)											62								
12	ONTARIO L. (493217) (53A/05NW-0018)	82																		
13	HODGE, H. J. (53B/09SW-0025-A1)							81												
14	CANADIAN NICKEL C.L. (53A/05NW-0019)				81/ 82															
15	TEX US OIL & GAS INC. ONTARIO L. (493217) HODGE, J. (53A/05NW-0020)	84										84	84		84					

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
16	ONTARIO L. (628823) HODGE, J. RECOSKIE, F. (53A/05NW-0021)	85										85	85							
17	CANADIAN NICKEL C. L. (53A/05NW-0022)				82	82		82												
18	CANADIAN NICKEL C. L. (53A/05NW-0023)				81															
19	VAN HORNE GOLD EXPL. INC. (53A/05NW-0024)				84	84														
20	TEX US OIL & GAS INC. VAN HORNE GOLD EXPL. INC. LAWDEN INVE T. L. (53A/05NW-0025)				86	86														
21	EXPLORA-5 L. PARTNERSHIP VAN HORNE GOLD EXPL. INC. (53A/05NW-0026)	87	87	87																

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
22	HODGE, J. ONTARIO L. (628823) RECOSKIE, F. EXPLORA-5 L. PARTNERSHIP (53A/05NW-0027)	87	87																	
23	TEX US OIL & GAS INC. LAWDEN INVESTS. L. (53A/05NW-0028)					86						86	86							
24	LAWDEN INVESTS. L. (53A/05NW-0029-A1)							86												
25	VAN HORNE GOLD EXPL. INC. (53A/05NW-0029-B1)							84												
26	EXPLORA-5 LTD. POWER EXPL. INC. (53A/05NW-0030)				87	87														
27	ESSO MINERALS CAN. L. (53B/08NE-0015)	88				88						88	88							
28	ESSO MINERALS CAN. L. (53A/05NW-0031) *(2.11522)											88	88							

* Toronto File Number

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
29	ESSO RESOURCES CAN. L. (53A/05NW-0032) *(2.11523)											88	88							
30	ESSO RESOURCES CAN. L. (53B/08NE-0017)	88																		
31	ESSO RESOURCES CAN. L. (53A/05NW-0033) *(2.11758)	88																		
32	ESSO RESOURCES CAN. L. (53A/05NW-0034) *(2.11760)		88			88						88	88							
33	ESSO RESOURCES CAN. L. (53A/05NW-0035) *(2.12120)											88	88							

* Toronto File Number

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	CANADIAN NICKEL C. L.	57748	1982	175	-45	28.30m	100.30	gt,py,po,mag, cp	--
2		57743	1982	85	-45	11.60m	152.40	po,cp,sp,mag	--
3		57744	1982	85	-45	11.70m	152.40	po,cp,sp,mag	--
4		57745	1982	85	-45	11.70m	152.40	mag,po,cp,py, tour	--
5		57746	1982	85	-45	14.30m	152.40	po,gt,mag	--
6		57747	1982	85	-45	23.50m	152.40	mag,po,py	--
7	RIO TINTO CANADIAN EXPL.	SL-1	1963	16E	-45	19.00	71.00	py,po,mag	Au
8		SL-2	1963	S16E	-45	16.00	69.50	po,py,cp,cu, asp	Au,Cu
9		SL-3	1963	S24E	-45	28.00	28.00	hole abandoned	--
10		SL-4	1963	S33E	-55	8.00	52.50	py,po,cp,Cu	Au
11		SL-5	1963	S30E	-60	28.00	77.00	py,po,cp	Au
12		SL-6	1963	West	-45	12.00	52.50	mag,po,cp,Cu	Au,Fe
13	INCO L.	15782	1961	West	-45	15.00	37.00	py,po	--
14		15783	1961	West	-45	17.90	71.00	po,py	--
15		15785A	1961	South	-45	48.00	48.00	--	--
15		15785B	1961	South	-45	49.00	49.00	--	--

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	INCO L.	15786	1961	North	-45	57.90	94.00	po,py	--
16		15787	1962	North	-45	63.00	435.00	po,py	--
17		15788	1962	North	-44	8.00	361.00	--	--
18		15789	1962	South	-44	58.00	334.00	po,py	--
19	CANADIAN NICKEL C. L.	57737	1981	355	-45	0.90m	108.80m	py,asp,po	Au,Cu,Zn, Pt,Pd
20		57739	1982	335	-45	14.90m	150.70m	py,po,mag,sp	Au
20		57749	1982	355	-45	11.00m	28.80m	-----	--
20		57750	1982	355	-45	14.30	31.70m	-----	--
21		57740	1982	355	-45	15.10m	154.40m	po,py,cp,mag, asp	Au
22		57741	1982	265	-45	12.60m	183.50m	po,cp,py,mag	Au
23		57742	1982	265	-45	8.8m	148.40m	po,py,cp,mag, gt,asp	Au
24		57733	1981	355	-45	2.40m	176.00m	py,cp,mag,po, asp	--
25		57734	1981	355	-45	7.30m	174.00m	cp,py,po	--
26		57735	1981	355	-45	2.40m	141.00m	cp,po,mag,asp	--
27		57736	1981	355	-45	4.30m	137.00m	po,mag	--
28		57738	1981	350	-45	4.00m	153.00m	po,py,asp	--

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
29	VAN HORNE GOLD EXPL. INC.	TN-84-1	1984	North	-50	7.00	506.00	po,py,asp,cp, mag	Au
30		TN-84-2	1984	North	-50	8.00	207.00	po,asp,py	Au
31		TN-84-3	1984	North	-50	11.00	257.00	po,py,cp,asp	Au
32		TN-84-4	1984	North	--	8.00	307.00	mag,po,py,cp	--
33		TN-84-5	1984	North	-50	8.00	437.00	po,asp	Au
34		TN-84-6	1984	North	-50	7.00	257.00	asp,po,py	Au
35	TEX US OIL & GAS INC. VAN HORNE GOLD EXPL. INC. LAWDEN INVESTS. LTD.	TN-86-1	1986	North	-49	10.00	357.00	asp,po,py	Au
36		TN-86-2	1986	North	-46.5	6.00	307.00	asp,po	Au
37		TN-86-3	1986	North	-45	4.00	346.00	po	Au
38		TN-86-4	1986	N65W	-49	57.00	607.00	py,po,mag,gt	Au
39		TN-86-5	1986	565°E	-53	52.00	687.00	py,gt,asp,po, mag,cp,sp	Au
40		TN-86-6	1986	565°E	-52	93.00	517.00	po,asp,mag,py, sp	Au
41	EXPLORA-FIVE LTD POWER EXPL. INC.	NK-87-01	1987	85	-44.7	39.50	357.00	gt,py,cp,po, sp,mag	Au
42		NK-87-02	1987	85	-47.8	42.00	477.00	gt,cp,staur, py,po,mag,asp	Au

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
43	EXPLORA-FIVE LTD. POWER EXPLORATION INC.	NK-87-03	1987	85	-45.1	32.00	577.00	Au,po,py,cp, mag,gt,asp	Au
43		NK-87-15	1987	85	-45.1	31.70	357.00	py,asp,cp,po, mag,gt	Au
43		NK-87-16	1987	55	-45.8	31.90	357.00	Au,py,po,cp, asp,mag	Au
43		NK-87-17	1987	115	-46.5	31.90	357.00	po,py,mag,cp, asp,sp,gt	Au
44		NK-87-04	1987	85	-46.5	24.00	597.00	po,asp,py,cp mag	Au
45		NK-87-05	1987	85	-44.0	35.30	397.00	gt,cp,po,py asp,tour,mag	Au
46		NK-87-06	1987	85	-42.5	33.50	406.00	mag,gt,asp,po, py,sp,cp	Au
47		NK-87-07	1987	85	-45.1	39.40	427.00	asp,cp,sp,Au, tour,gt,po,py	Au
47		NK-87-08	1987	85	-45.1	35.20	407.00	po,py,asp,gt, tour,mag,cp	Au
47		NK-87-28	1987	85	-45.0	51.70	407.00	gt,py,po,mag, asp,cp,sp	Au
47		NK-87-29	1987	85	-45.0	27.80	407.00	mag,gt,po,cp, asp,py	Au

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
48	EXPLORA-FIVE LTD. POWER EXPLORATION L.	NK-87-09	1987	175	-46.9	28.80	477.00	gt,po,py,asp, cp,mag	Au
49		NK-87-10	1987	175	-45.1	16.70	457.00	po,py,cp,gt, sp,mag	Au
50		NK-87-11	1987	175	-46.0	31.20	497.00	po,tour,gt,py, cp,mag,asp	Au
51		NK-87-12	1987	265	-46.0	15.00	557.00	py,po,mag,cp, sp,tour	Au
52		NK-87-13	1987	265	-45.9	17.40	597.00	py,mag,gt,po, cp,sp,asp	Au
53		NK-87-14	1987	265	-46.9	32.10	557.00	py,po,sp,cp, mag	Au
54		NK-87-22	1987	85	-45.5	37.50	307.00	py,asp,po,cp, mag	Au
54		NK-87-23	1987	85	-45.0	22.00	407.00	tour,py,po,gt	Au
55		NK-87-18	1987	85	-47.5	60.90	417.00	po,py,mag,cp	Au
56		NK-87-19	1987	85	-46.5	35.00	557.00	py,po,cp,asp, sp,mag	Au
57		NK-87-25	1987	85	-45.5	57.00	467.00	py,po,cp,asp, mag,gt,sp	Au
58		NK-87-26	1987	85	-45.0	95.30	492.00	mag,gt,po,py, sp,asp	Au

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
59	EXPLORA-FIVE LTD. POWER EXPLORATION L.	NK-87-27	1987	85	-46.5	46.00	357.00	py,sp,mag,gt, po	Au
60		NK-87-20	1987	85	-47.5	34.30	307.00	mag,gt,po,py, cp	Au
60		NK-87-21	1987	85	-45.7	34.40	407.00	Au,po,py,asp, cp,mag	Au
60		NK-87-24	1987	85	-45.5	35.70	307.00	po,py,gt	Au

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AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No Data as of February, 1989				

NEAWAGANK LAKE

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	HUMUS, ROCK	Au,As, multi-spectral	EXPLORA-5 L. PARTNERSHIP	(53A/05NW-0026)
2	SOIL, ROCK	Au,As	HODGE,J. EXPLORA-5 L. PARTNERSHIP	(53A/05NW-0027)
3	SOIL, ROCK	Multi-spectral	ESSO RESOURCES	(53A/05NW-0034)

GEOCHRONOLOGY DATA - AGE DATING

Site	Method	Material	Reference	Result
NO DATA AS OF FEBRUARY, 1989				

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist's office:

(a) Aerial Photographs: No Data as of February, 1989

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:250,000	1962	WUNNUMMIN LAKE (53A)	SURVEYS & MAPPING BRANCH, DEPT. OF MINES & TECHNICAL SERVICES
1:50,000	1977	NEAWAGANK LAKE (53A/5)	SURVEYS & MAPPING BRANCH, DEPT. OF ENERGY, MINES AND RESOURCES

NEAWAGANK LAKE AREA

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

COMPANY	NEWSPAPER	DATE	PAGE
POWER EXPLORATIONS	Northern Miner	Aug.01/88	p. 16
	Northern Miner	Oct.10/88	p. 28
	Dryden Observer	July 19/88	p. 12
SANTA MARIA RESOURCES L.	Northern Miner	Aug.01/88	p. 12
	Dryden Observer	July 19/88	p. 16

ODM GENERAL INDEX SEARCH

Words searched: Jardine, Hooker Wilson, Neawagank Lake, Obabigon Lake, Labeche Lake, Hebury Lake

Index Volume	Listing	Report Volume	Part	Page
8	OPERATION PICKLE LAKE - BULGING LAKE - EMBRYO LAKE AND LONG LEGGED LAKES AREA	MP	53	p.28

NEAWAGANK LAKE AREA

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
BLACKBURN, C.E. JANES, D.A.	1983	Gold Deposits In Northwestern Ontario, p.206-209 in the Geology of Gold in Ontario, O.G.S. MP 110, 278p.	MP 110	p.206-209
BREAKS, F.W. BARTLETT, J.R. DEKEMP, E.A. et al ...	1984	Opapimiskan Lake Project, Precambrian Geology, Quaternary Geology and Mineral Deposits of the North Caribou Lake Area, Districts of Kenora, Patricia Portion, p.258-273 in Summary of Field Work, O.G.S. MP 119, 309p.	MP 119	p.258-273
BREAKS, F.W. BARTLETT, J.R. OSMANI, I.A. FINAMORE, P.F. WALLACE, H.	1985	Opapimiskan Lake Project, Precambrian Geology, of the Opapimiskan-Forester Lakes Area, District of Kenora, Patricia Portion, p.368-378 in Summary of Field Work, O.G.S. MP132, p.435	MP 132	p.368-378
BREAKS, F.W. OSMANI, I.A. DEKEMP, E.A.	1987	Precambrian Geology of the Opapimiskan-Neawagank Lakes Area, Eastern Part (Opapimiskan Lake Project) Kenora District (Patricia Portion), O.G.S. Map P.3081, Geological Series	P.3081	1:31,680
DUFFELL, S. MACLAREN, A.S. HOLMAN, R.H.C.	1963	Red Lake-Lansdowne House Area, Northwestern Ontario, Bedrock Geology, Geophysical and Geochemical Investigations, Paper 63-5	GSC Paper 63-5	
EMSLIE, R.F. HOLMAN, R.H.C.	1966	The Copper Content of Canadian Shield Rocks, Red Lake-Lansdowne House Area, Northwestern Ontario, Bulletin 130	GSC Bulletin 130	
G.S.C.	1963	North Caribou Lake, Ontario - Geochemistry Copper in Bedrock, Map 52-1963	Map 52-1963	1:253,440
G.S.C.	1970	Sachigo River-Aeromagnetic Compilation Map, Kenora District, P.575	P.575	1"=16 Miles

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
O.D.M.	1969	Northern Patricia Portion; District of Kenora, Preliminary Map P.526	P.526	1"=25 Miles 1:1,584,000
O.G.S.	1985	Airborne Electromagnetic and Total Intensity Magnetic Survey, Opapimiskan Lake Area, District of Kenora, Patricia Portion, by Aerodat Ltd., for O.G.S., Geophysical/Geochemical Series, Maps 80751, 80752 and 80753	Maps 80751 80752 80753	1:20,000
OSMANI, I.A. STOTT, G.M.	1988	Project Number 88-23A, Regional-Scale Shear Zones in Sachigo Subprovince and Their Economic Significance, p.53-67 in Summary of Field Work 1988, by the O.G.S., MP 141, 498p.	MP 141	p.53-67
PREST, V.K.	1963	Red Lake-Lansdowne House Area, Northwestern Ontario, Surficial Geology, Paper 63-6	GSC Paper 63-6	
ROBERTSON, JAMES A. VOS, M.A. SPRINGER, JANET S.	1976	Mineral Pctential Map of Ontario, Northwestern Sheet, O.D.M. Preliminary Map, p.1096, Mineral Deposits Series	P.1096	1"=16 Miles 1:1,013,760
SAGE, R.P. BREAKS, F.W.	1976	Operation Pickle Lake, Districts of Kenora, Patricia Portion and Thunder Bay, O.D.M., O.F.R. 5180, 531p., 2 appendices, 7 charts	OFR 5180	
SAGE, R.P. BREAKS, F.W.	1982	Geology of the Cat Lake-Pickle Lake Area, Districts of Kenora and Thunder Bay, O.G.S. Report 207, 238p., accompanied by Map 2218	Report 207 Map 2218	1:253,440
SAGE, R.P. BREAKS, F.W. TROUP, W.R.	1973	Operation Pickle Lake, Forester Lake-Wigwascence Lake Sheet, District of Kenora (Patricia Portion), O.D.M. Map P.807, Geological Series	P.807	1"=2 Miles

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
SAGE, R.P. BREAKS, F.W. TROUP, W.R.	1972	Operation Pickle Lake, Bulging Lake-Embryo Lake and Long Legged Lakes Area, District of Kenora (Patricia Portion), p.23-37 in Summary of Field Work, 1972 by the Geological Branch O.D.M., MP 53, 165p.	MP 53	p.23-37
SPRINGER, JANET S.	1978	Ontario Mineral Potential, Wunnumin Lake Sheet, District of Kenora (Patricia Portion), O.G.S. Map P.1546, Mineral Deposit Series	P.1546	1:250,000
VOS, M.A. ABOLINS, T. MCKNIGHT, R.L.W. SMITH, VIOLET	1983	Industrial Minerals of Northern Ontario, Part 2, Parts of Districts of Manitoulin, Sudbury and Nipissing, Districts of Algoma, Timiskaming, Thunder Bay, Cochrane, Kenora (Patricia Portion), Kenora and Rainy River, O.G.S., Open File Report 5386, 1486p., and 3 figures	OFR 5386	p.1408-1409

NOTES AND ADDENDA

On the Exploration Map, due to scale, one trench symbol may represent a number of trenches.

MAPS
NOT
FILMED

CARTES
OMISES